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Project: iGEM uppsala 2019

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Gel of Ppic

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PCR will amplify our samples as well as isolate the insert. Different methods will be used such as Taq, phusion flash. The longest insert is 3,4 kb long.

Taq:

Length of amplification: 3,4kb

Taq extension time: 1 min/kb

extension time: 3,4 min = 3 min & 24 s

	A	B	C	D	E	F
1	Temp(*C)	95	95	58	58	4
2	Time(min)	5	0,5	0,5	3,4	inf.
3			Cyckle(30)	

Table 1: The PCR time table

	A	B
1	What	Amount(ul)
2	ddH2O	30,2
3	10x Taq buffer	5
4	2mM dNTPs	5
5	primer fwd 5uM	5
6	primer rvd 10uM	2,5
7	Taq DNA polymerase	0,3
8	Plasmid 2ng/ul	2

table2: Amount of each PCR reaction.

Phusion flash:

Table3							
	A	B	C	D	E	F	G
1	Temp(*C)	95	98	58	72	72	4
2	Time(min)	5	0,5	0,5	3,4	1	inf.
3			cyckle(30)		

Table3: PCR time table for phusion flash.

Table4			
	A	B	C
1	What	Amount(ul)	Final conc.
2	ddH2O		
3	2x phusion Flash PCR master Mix	25	1x
4	Primer fwd 5uM	5	0,5uM
5	Primer rwd 10uM	2,5	0,5uM
6	Template DNA 2ng/ul	2	0,08ng/ul

Table4: Amount to add for each reaction.